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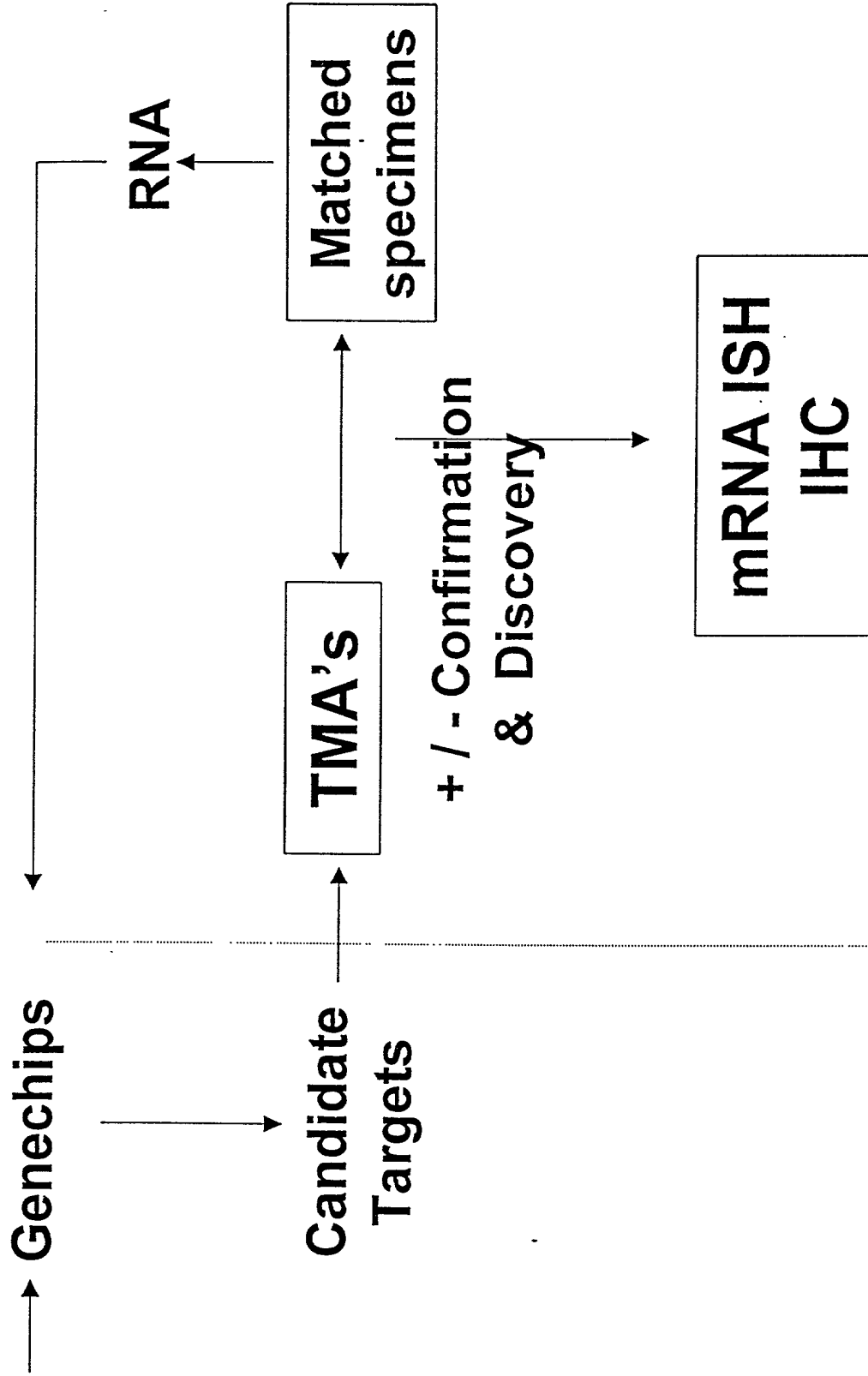


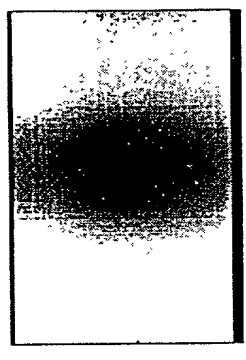
FIG. 1A

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# Validation - phase I

- verification of initial ---
- screening results
- establish cellular -----
- localization & anatomic
- distribution



50-200  
series basic  
arrays

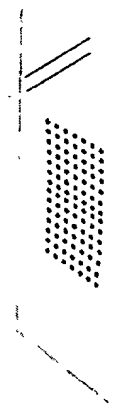


FIG. 1B

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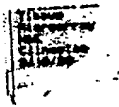


FIG. 2A

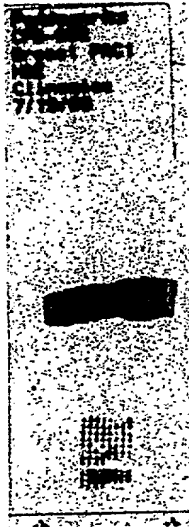


FIG. 2D

	1	2	3	4	5	6	7	8	
a	0	0	0	0	0	0	0	0	
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	
d	0	0	0	0	0	0	0	0	A
e	0	0	0	0	0	0	0	0	
f	0	0	0	0	0	0	0	0	
a	0	0	0	0	0	0	0	0	B
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	

FIG. 2B



Six tissue elements from a PathWork™ Breast Array BR50 stained with CK7 showing selective staining (400X). Tissue elements are 0.6mm in diameter and spaced 0.3mm apart.

FIG. 2C

Sample Data Sheet Information (for one tissue element, located at A1a)  
provided with every pathWorks™ Tissue MicroArray

Cat. #	BR50	Mitoses:	1
Lot #	07	PT:	1
Coordinates:	A1a	pN:	0
Organ:	Breast	LN pos	0
Category:	Breast cancer, ductal	LN all	23
Sex:	F	Tumor dia.	15
Age:	67	Surgery:	mastectomy
BRE Grade:	G2		
Tubuli:	3		
Polymorphy:	3		

FIG 2E

# Tissue MicroArrays

- Development of population databases
- High-throughput in situ analysis of DNA, RNA and protein
- Discovery of diagnostic and prognostic correlations
- Target prioritization

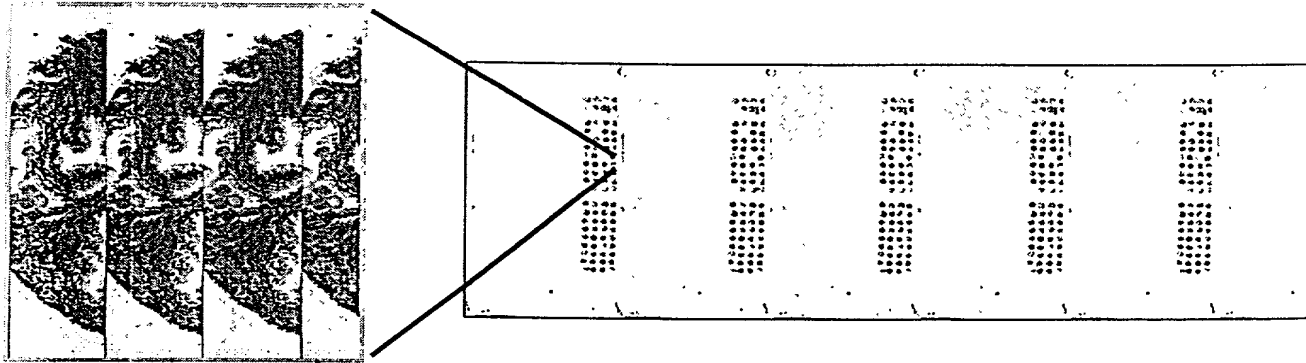


FIG. 3

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FIG. 4A

# Biorepository Database

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coordinates on array	histology	BRCA grade	tumor diameter	pT	pN	nodes examined	nodes pos	censor	months survival	age	hormotherapy	chemotherapy	prophylactic mastectomy
	ductal	1						0	58	33			
	ductal	1	90	3	1	40	28	0	78	43	no	yes	no
	ductal	2	60	3	2	10	6	0	29	54	yes	no	no
	ductal	1	20	1	0	8	0	0	96	55	no	no	no
	ductal	1	30	4	1	9	2	0	64	70	yes	no	no
	ductal	1	30	4	1	14	8	0	43	44	no	yes	no
	ductal	1	10	1	1	11	2	0	12	51			
	ductal	3	22	2	1	16	3	0	107	64	yes	no	no
	ductal	3	30	2	3	4	4	0	21	48			
	ductal	3			3	2		0	28	49			
	ductal	2	40	2	1	13	5	0	55	69			
	ductal	1	40	2	2	12	9	0	73	44			
	ductal	2	30	4	2	10	7	0	85	70			
	ductal	3	30	4	0	14	0	0	80	79	no	no	no

Medication and treatment histories, with outcomes, and expression profiles

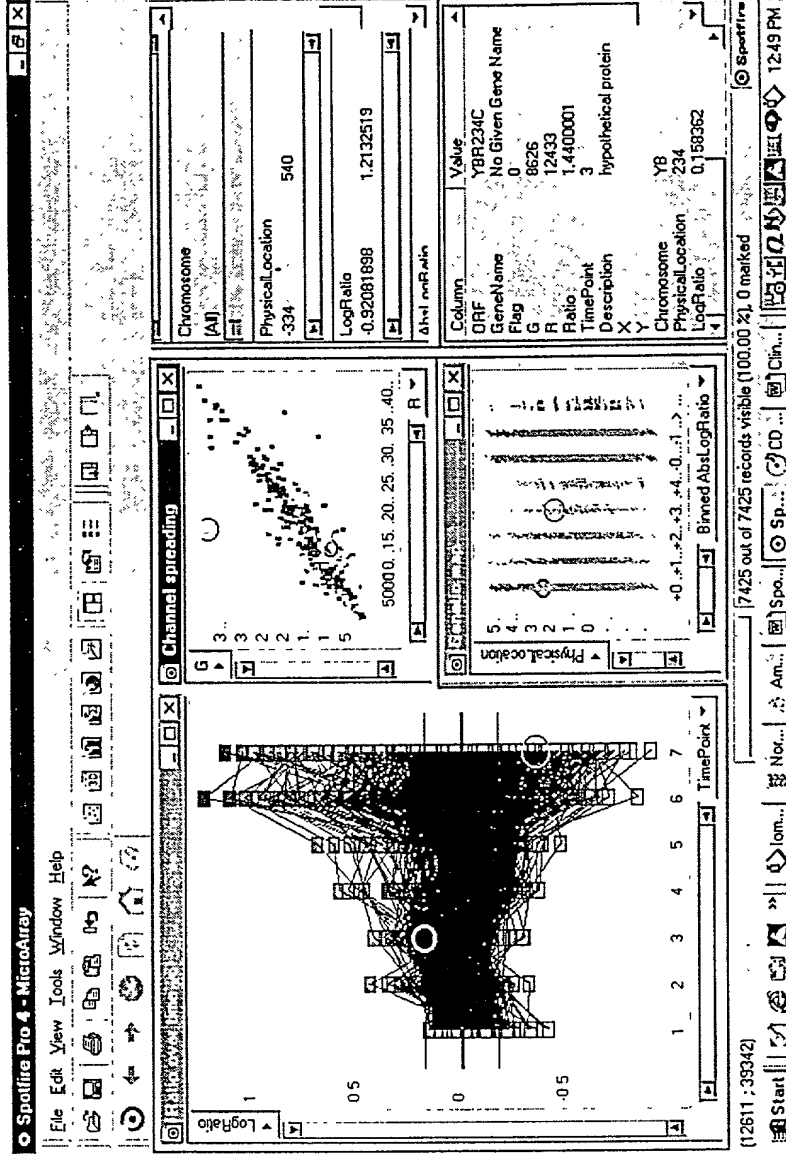
FIG. 4B

# Biorepository Database

Sorting and selection of patient populations

Clustering analysis

Development of expression profiles vs. medical data



Clustering analysis

FIG. 4C

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